This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

Claim 1 (Previously Presented) A glass comprising:

Oxide	Mole %
SiO ₂	35 – 75
GeO ₂	0-10
B ₂ O ₃	0 - 8
Al ₂ O ₃	0 - 8
Li ₂ O	>0 - 25
Na ₂ O	0 - 60
K ₂ O	0 - 6
MgO	0
Σ BaO, SrO, CaO, ZnO, PbO	0 - 10
TiO ₂	0 - 5
La ₂ O ₃	0 - 30
RE ₂ O ₃	0 - 12
Y2O3	>0 - 30
As ₂ O ₃	0 - 0.5
F	0 - 5
Sum R ₂ O ₃ , R=Al, B, La and RE	0 - 40

wherein RE represents rare earth ions, excluding La.

Claim 2 (Previously Presented) A glass according to claim 1, having the following properties:

Property	Range
n _d	>1.5
T(%) at 1550 nm for 1.0 mm	>88
CTE	\geq 90, especially \geq 110
$(-30 \text{ to } + 70^{\circ}\text{C})$	
x 10 ⁻⁷ /°C	
E (GPa)	> 80
Tg (°C)	<u>></u> 350

Claim 3 (Previously Presented) A glass according to claim 1, comprising:

Oxide	Mole %
SiO ₂	40 – 70
GeO ₂	0-5
B ₂ O ₃	0 - 5
Al ₂ O ₃	0 - 5
Li ₂ O	>0 - 25
Na ₂ O	0 - 35
K ₂ O	0 – 5
MgO	0
Σ BaO, SrO, CaO, ZnO, PbO	0 – 5
TiO ₂	0 - 3
La ₂ O ₃	0 - 12
RE ₂ O ₃	0 - 10
Y ₂ O ₃	>0 - 25

A\$2O3	0 - 0.3
F	0 - 3
Sum R ₂ O ₃ , R=Al, B, La and RE	0 - 40

Claim 4 (Previously Presented) A glass according to claim 3, having the following properties:

Property	Range
Nd	1.50 - 1.70, especially
	1.50 - 1.65
T(%) at 1550 nm for 1.0	>90
mm	
CTE	>100, especially >110
$(-30 \text{ to } + 70^{\circ}\text{C})$	
x 10 ⁻⁷ /°C	
Tg (°C)	<u>≥</u> 400
E [GPa]	>85

Claim 5 (Previously Presented) A glass comprising:

Oxide	Mole %
SiO ₂	40-60
GeO ₂	0-10
B ₂ O ₃	0-10
Al ₂ O ₃	0-4
Li ₂ O	>0-26
Na ₂ O	>0-26

K ₂ O	0-15
MgO	0
Σ BaO, SrO, CaO, ZnO, PbO	0-10
TiO ₂	0-9
ZrO ₂	0-2
La ₂ O ₃	0-4
Re ₂ O ₃	0-4
Y ₂ O ₃	>0-5
Sc ₂ O ₃	0-4
Nb ₂ O ₅	0-2
F	0-5
Σ R ₂ O ₃ , R=Al, B, La, and RE	0-25
As ₂ O ₃	0-0.5

Claim 6 (previously presented) A glass according to claim 5, having the following properties:

Property	Range
Nd	> 1.5
T(%) at 1550 nm for 1.0	
mm	> 88
CTE	
(-30 to +70°C)	≥ 90
x 10 ⁻⁷ / ⁰ C	
E (GPa)	> 80
Tg (°C)	≥ 350

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Claim 7 (previously presented) A glass according to claim 5 comprising:

Oxide	Mole %
SiO ₂	45-55
GeO ₂	0-5
B2O3	0-8
Al ₂ O ₃	0-2
Li ₂ O	>0-17
Na ₂ O	>0-19
K ₂ O	0-6
MgO	0
∑ BaO, SrO,CaO, ZnO, PbO	0-5
TiO ₂	0-5
ZrO ₂	0-1
La ₂ O ₃	0-3
RE ₂ O ₃	0-3
Y ₂ O ₃	>0-4.5
Sc ₂ O ₃	0-3
Nb ₂ O ₅	0-1
F	0-3
\sum R ₂ O ₃ , R=Al, B, La, and RE	0-15
As ₂ O ₃	0-0.3

Claim 8 (previously presented) A glass according to claim 7, having the following properties:

Property	Range
n d	1.50-1.70
T(%) at 1550 nm for 1.0	
mm	> 90
CTE	
(-30 to +70°C)	≥ 100
x 10 ⁻⁷ / ⁰ C	
Tg (°C)	≥ 400
E [GPa]	> 85

Claim 9 (previously presented) A glass comprising:

Oxide	Mole %
SiO ₂	45.0-58.0
B ₂ O ₃	0.0-5.0
A12O3	0.0-3.0
Li20	6.5-16.5
Na ₂ O	7.0-24.0
K ₂ O	0.0-12.0
MgO	0.0
CaO	0.8-0

SrO	0.8-0
BaO	0.0-8.0
TiO ₂	0.0-12.0
ZrO ₂	0.5-5.5
Ta ₂ O ₅	0.0-1.0
Gd ₂ O ₃ +La ₂ O ₃ +Y ₂ O ₃	2.70-3.30
AS2O3	0.0-0.15

Claim 10 (previously presented) A glass according to claim 9, having the following properties:

Property	Range
Nd	>1.5
T(%) at 1550 nm for 1.0	>88
mm	
CTE	<u>></u> 90
$(-30 \text{ to } + 70^{\circ}\text{C})$	
x 10 ⁻⁷ / ⁰ C	
E (GPa)	>80
Tg (°C)	400-485

Claim 11 (previously presented) A glass according to claim 9, comprising:

Oxide	Mole %
SiO ₂	46.0-52.0
Al ₂ O ₃	0.0-1.5
B2O3	0.0-1.0
Li ₂ O	7.0-16.0
Na ₂ O	7.0-20.0
K ₂ O	4.0-12.0
MgO	0.0
CaO	0.0-7.5

SrO	0.0-7.5
BaO	0.0-7.5
TiO ₂	1.0-10.5
ZrO ₂	1.5-5.0
Ta2Os	0.3-0.7
$La_2O_3 + Gd_2O_3 + Y_2O_3$	2.6-2.9
AS ₂ O ₃	0.0-0.15

Claim 12 (previously presented) A glass according to claim 11, having the following properties:

Property	Range
n d	1.50 - 1.70
T(%) at 1550 nm for 1.0	>88
mm	
CTE	>100
$(-30 \text{ to } + 70^{\circ}\text{C})$	
x 10 ⁻⁷ / ⁰ C	
Tg (°C)	415-480
E [GPa]	>80

Claim 13 (withdrawn) An interference filter comprising a glass substrate having at least two interference layers coated thereon, wherein the glass substrate is a glass according to claim 1.

Claim 14 (withdrawn) An interference filter comprising a glass substrate having at least two interference layers coated thereon, wherein the glass substrate is a glass according to claim 5.

Claim 15 (withdrawn) An interference filter comprising a glass substrate having at least two interference layers coated thereon, wherein the glass substrate is a glass according to claim 9.

Claim 16 (withdrawn) A fiber optic system comprising a light source, a fiber optic transmission component, a receiver of transmitted radiation and an interference filter comprising a glass substrate having at least two interference layers coated thereon, said glass substrate comprising a glass according to claim 1.

Claim 17 (withdrawn) A fiber optic system comprising a light source, a fiber optic transmission component, a receiver of transmitted radiation and an interference filter comprising a glass substrate having at least two interference layers coated thereon, said glass substrate comprising a glass according to claim 5.

Claim 18 (withdrawn) A fiber optic system comprising a light source, a fiber optic transmission component, a receiver of transmitted radiation and an interference filter comprising a glass substrate having at least two interference layers coated thereon, said glass substrate comprising a glass according to claim 9.

Claim 19 (withdrawn) A process for making a glass according to claim 1, comprising melting raw materials corresponding to oxides in the glass, refining a resultant glass melt, casting the melt in a moled and optionally annealing.

Claim 20 (withdrawn) A process for making a glass according to claim 1, comprising casting into a moled a glass melt produced from raw materials corresponding to oxides in the glass.

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Claim 21 (withdrawn) A process for making a glass according to claim 5, comprising casting into a moled a glass melt produced from raw materials corresponding to oxides in the glass.

Claim 22 (withdrawn) A process for making a glass according to claim 9, comprising casting into a moled a glass melt produced from raw materials corresponding to oxides in the glass.

Claim 23 (withdrawn) A demultiplexing optical component comprising the interference filter of claim 13.

Claim 24 (withdrawn) A demultiplexing optical component comprising the interference filter of claim 14.

Claim 25 (withdrawn) A demultiplexing optical component comprising the interference filter of claim 15.

Claim 26 (withdrawn) A method of demultiplexing, comprising passing an optical signal of multiple wavelengths through a demultiplexing optical component according to claim 23.

Claim 27 (withdrawn) A method of demultiplexing, comprising passing an optical signal of multiple wavelengths through a demultiplexing optical component according to claim 24.

Claim 28 (withdrawn) A method of demultiplexing, comprising passing an optical signal of multiple wavelengths through a demultiplexing optical component according to claim 25.

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Claim 29 (new) A glass comprising:

Oxide	Mole %
SiO ₂	35 – 75
GeO ₂	0-10
B ₂ O ₃	0 - 8
Al ₂ O ₃	0 - 8
Li ₂ O	>0 - 25
Na ₂ O	0 - 60
K ₂ O	0 – 6
MgO	0
Σ BaO, SrO, CaO, ZnO, PbO	0 - 10
TiO ₂	0 – 5
La ₂ O ₃	0 – 30
RE ₂ O ₃	0 - 12
Y ₂ O ₃	4.5 – 30
As ₂ O ₃	0 - 0.5
F	0 - 5
Sum R ₂ O ₃ , R=A ₁ , B, La and RE	0 - 40

Claim 30 (new) A glass according to claim 1, comprising:

Oxide	Mole %
SiO ₂	40 – 70
GeO ₂	0-5
B2O3	0 - 5

Al ₂ O ₃	0 - 5
Li ₂ O	>0 - 25
Na ₂ O	0 - 35
K ₂ O	0 – 5
MgO	0
Σ BaO, SrO, CaO, ZnO, PbO	0 – 5
TiO ₂	0 – 3
La ₂ O ₃	0 - 12
RE ₂ O ₃	0 - 10
Y2O3	4.5 – 25
As ₂ O ₃	0 - 0.3
F	0 - 3
Sum R ₂ O ₃ , R=Al, B, La and RE	0 - 40

Claim 31 (new) A glass comprising:

Oxide	Mole %
SiO ₂	40-60
GeO ₂	0-10
B ₂ O ₃	0-10
Al ₂ O ₃	0-4
Li ₂ O	>0-26
Na ₂ O	>0-26
K ₂ O	0-15
MgO	0
Σ BaO, SrO, CaO, ZnO, PbO	0-10

TiO ₂	0-9
ZrO ₂	0-2
La ₂ O ₃	0-4
Re ₂ O ₃	0-4
Y ₂ O ₃	4.5-0-5
Sc ₂ O ₃	0-4
Nb ₂ O ₅	0-2
F	0-5
\sum R ₂ O ₃ , R=Al, B, La, and RE	0-25
As ₂ O ₃	0-0.5

Claim 32 (new) A glass according to claim 5 comprising:

Oxide	Mole %
SiO ₂	45-55
GeO ₂	0-5
B ₂ O ₃	0-8
Al ₂ O ₃	0-2
Li ₂ O	>0-17
Na ₂ O	>0-19
K ₂ O	0-6
MgO	0
Σ BaO, SrO,CaO, ZnO, PbO	0-5
TiO ₂	0-5
ZrO ₂	0-1
La ₂ O ₃	0-3

RE ₂ O ₃	0-3
Y ₂ O ₃	4.5-4.9
Sc ₂ O ₃	0-3
Nb ₂ O ₅	0-1
F	0-3
\sum R ₂ O ₃ , R=Al, B, La, and RE	0-15
As ₂ O ₃	0-0.3

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